

ABSTRACT OF THE INVENTION

The present invention relates to methods and compositions for the treatment and diagnosis of immune disorders, especially T helper lymphocyte-related disorders, 5 and also for the treatment of mast cell-related processes and disorders, ischemic disorders and injuries, including ischemic renal disorders and injuries. For example, genes which are differentially expressed within and among T helper (TH) cells and TH cell subpopulations, which include, but are 10 not limited to TH0, TH1 and TH2 cell subpopulations are identified. Genes are also identified via the ability of their gene products to interact with gene products involved in the differentiation, maintenance and effector function of such TH cells and TH cell subpopulations. The genes 15 identified can be used diagnostically or as targets for therapeutic intervention. In this regard, the present invention provides methods for the identification and therapeutic use of compounds as treatments of immune disorders, especially TH cell subpopulation-related 20 disorders. Additionally, methods are provided for the diagnostic evaluation and prognosis of TH cell subpopulation-related disorders, for the identification of subjects exhibiting a predisposition to such conditions, for monitoring patients undergoing clinical evaluation for the 25 treatment of such disorders, and for monitoring the efficacy of compounds used in clinical trials. Methods are also provided for the treatment of symptoms associated with mast cell-related processes or disorders and ischemic disorders and injuries using the genes, gene products and antibodies of 30 the invention.